

Biology Unit 6 Packet—Human Genetics & Genetic Engineering

Chapters 13 & 14

Topics:

- Manipulating DNA
- Cell Transformation
- Applications
- Sex determination & Linkage
- Mutations
- Pedigrees & Diseases
- Sex-linked disorders
- Nondisjunction

Textbook Correlations

- Concepts 13-1
- Concepts 13-2
- Concepts 13-3
- Concepts 14-1
- Concepts 14-1
- Concepts 14-1
- Concepts 14-2
- Concepts 14-2

Key Terms

- | | |
|----------------------|-------------------|
| a. Karotype | f. Nondisjunction |
| b. Sex-chromosome | g. Point mutation |
| c. Autosome | h. Carrier |
| d. Pedigree | i. Mutation |
| e. Sex-linked traits | |

Recommended work for Chapters 13 & 14:

Chapter 13

- Section 13-2 #1
- Section 13-3 #1, 2
- Section 13-4 #1, 2

Chapter 14

- Section 14-1 #1-5
- Section 14-2 #1-5
- Chapter Review #1-10, 12, 14, 15, 18, 19,

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Human Chromosomes

- How many chromosomes do humans have? _____
- Identify the sex chromosomes? _____
 - What is the role of the X chromosome?
 - What is the role of the Y chromosome?
 - Identify a genetic female_____
 - Identify a genetic male_____
- *What is a karyotype? Describe how it's used.*